

Degradation half lives for select chemicals in soils, sediments, and surface waters*.

Chemical	Half Life (days) Sediment/Soils					Half Life (days) Waters					
	Slow	Mid**	Fast	Matrix	Ref.	Slow	Mid**	Fast	Matrix	Ref.	
Tributyltin	150	120	112	Sed	(10)	140	9.0	4.0	SW	(10)	
	160	15	2	Sed	(12)	150	11.0	2.5	SW	(12)	
	inf (1898)	374	113	Sed	(13)						
Bis(2-ethylhexyl)phthalate	389	-	5.0	Various	(3)	23	-	5.0	SW	(3)	
	495	187	63	Sed	(6)	inf (173)	20	5.3	SW	(6)	
	347	44	8.5	Soil	(6)	32	21	2.9	SW	(10)	
	inf (200)	31	14	Soil/Sed	(10)						
Benzo(a)pyrene	2120	644	57	Soil/GW	(3)	530	-	57	SW	(3)	
	inf (11,552)	315	12	Soil	(6)	431	-	207	SW	(3)	
	inf (2100)	330	85	Sed	(6)	inf.	-	462	SW	(6)	
	2993	269	2.1	Soil	(4)	-	825	-	SW	(4)	
	inf (2100)	741	54	Sed	(10)						
Naphthalene	125	-	0.12	Soil	(4)	550	-	0.67	SW	(4)	
	219	-	0.20	Sed/GW	(4)	20	-	0.50	SW	(3)	
	258	25	1.0	Various	(3)	178	8.0	0.29	SW	(6)	
	72	17	0.21	Sed	(6)	43	9.0	2.9	SW	(10)	
	inf (99)	6.9	1.8	Soil	(6)						
	inf (3851)	130	2.3	GW/Soil	(11)						
	inf (18)	7.0	2.0	Soil	(10)						
	inf (88)	17	0.13	Sed/GW	(10)						
	DDD	11,425	730	70	Soil/GW	(3)	5833	-	730	SW	(3)
		5776	1005	730	Soil	(7)	-	10,193	-	SW	(7)
DDT	-	160	-	Soil	(10)	inf (69,350)	31,390	570	SW	(10)	
	-	inf	-	Sed	(10)						
	11,425	730	16	Soil/GW	(3)	5833	350	7.0	SW	(3)	
	5776	2806	110	Soil	(7)	8060	347	7.0	SW	(7)	
PCBs***	12,775	730	31	Soil	(10)	inf (54,750)	4380	81	SW	(10)	
	inf (180,713)	20,440	50	Soil/Sed	various	inf (180,713)	20,440	50	SW	various	

* In cases where very limited data are available groundwater, and/or marine degradation rates were also compiled. Anerobic and aerobic rates shown for sediment and aerobic rates shown for water, unless very limited data available.

**Mid - Central tendency estimate as reported (e.g., median, mean, mid-range), only value reported, or median calculated from multiple reports in reference.

*** A large number of PCB degradation rates exist that are for specific congeners or congener groups. This table provides an overall summary of the range of PCB degradation rates found. To refine these ranges, the specific congeners for modeling need to be selected.

inf. - slowest rate was no degradation reported (maximum measured half life reported in parenthesis).

NA - Not applicable

Sed - Sediment

SW - Fresh surface waters

GW - Groundwater

- Statistic not reported or addressed.

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